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February 26, 2018

Mr. Brian Sadowski
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2915

**Re: Periodic Review Report (February 14, 2017 to February 14, 2018)
and IC/EC Certification
3M Tonawanda, New York Facility
Order on Consent # B9-0369-91-04, Site Code #915148**

Dear Mr. Sadowski:

In accordance with the referenced Order on Consent (Order) and at 3M's direction, we are submitting the Periodic Review Report (PRR) for the 3M Tonawanda, NY facility for the period extending from February 14, 2017 to February 14, 2018.

We also have enclosed the completed Institutional and Engineering Controls Certification Form for this site.

Should you have any comments or questions, please contact me at 610-701-3677.

Very truly yours,

WESTON SOLUTIONS, INC.

A handwritten signature in blue ink, appearing to read "Thomas A. Drew", is written over the printed name.

Thomas A. Drew, P.G.
Principal Project Manager

c: J. Martin, 3M (w/ enclosure)
K. Held, 3M (w/ enclosure)
G. May, NYSDEC (w/enclosure)





PERIODIC REVIEW REPORT

Site Name and Location: 3M Facility, Tonawanda, New York

Registry Number: 915148

Order on Consent: B9-0369-91-04

3M Project Contacts: Jeannie Martin (3M Corporate)
Keith Held (3M Tonawanda)

NYSDEC Project Lead: Glenn May

Reporting Period: February 14, 2017 to February 14, 2018

Background

The New York State Department of Environmental Conservation (NYSDEC) issued a Record of Decision (ROD) (Registry No. 915148) for the 3M facility in Tonawanda, New York. This ROD presents the selected remedial action for the Tonawanda facility based on the site's Administrative Record and public input. Following ROD issuance, the NYSDEC reclassified the 3M Tonawanda site from "Class 3 – Does not present a significant threat to the public health or environment – action may be deferred", to "Class 4 – Site properly closed – requires continued management."

3M is implementing the selected ROD remedy, No Further Action with Monitoring, under an Order on Consent (Index # B9-0369-91-04) (Order) according to the NYSDEC-approved Operation and Maintenance Work Plan (O&M Work Plan), which was made part of the Order. The original O&M Work Plan called for:

- Filing a Declaration of Covenants and Restrictions with the property deed at the Erie County Clerk's Office. This was completed and was reported in the initial progress report for the period ending March 31, 2001.
- Performing long-term groundwater monitoring. Involved semiannual sampling of site monitor wells MW-1, MW-2, MW-3, and MW-4 and annual sampling of the two site lysimeters, LY-1 and LY-2, with groundwater samples analyzed for carbon disulfide (CS₂).
- Inspecting the completed interim remedial measures (IRMs) (includes the CS₂ tank system, and the catch basin and associated swale) and maintaining the integrity of the IRMs.

Semiannual periodic review reports have been submitted by 3M to NYSDEC and these reports summarize project activities that occurred in the previous reporting periods. In

August 2005, the Five-Year Evaluation Report was submitted by 3M to NYSDEC and this report concluded that the selected remedy has been effective in meeting remediation goals outlined in the 1999 ROD and remains protective of human health and the environment. The aforementioned evaluation report also contained a recommended future course of action for the facility, including reductions in groundwater monitoring and reporting under the Order/O&M Plan.

By letter of May 18, 2006, NYSDEC provided comment on the Five-Year Evaluation Report. Based on the presence of CS₂ in the subsurface environment, NYSDEC required continued monitoring at this facility, but required only one site monitoring well (MW-4) and one site lysimeter (LY-2) be monitored for CS₂ on a semiannual basis and annual basis, respectively. According to the May 2006 NYSDEC correspondence, reporting on the maintenance of the drainage swale and associated catch basins would continue under the Order/O&M Plan; however, reporting on the continued operations, maintenance and inspection of the existing CS₂ tank system could be completed by 3M under NYSDEC's Chemical Bulk Storage Program.

This Periodic Review Report (PRR) reflects the O&M monitoring and reporting modifications agreed upon with NYSDEC. Sampling of the reduced monitoring network under the modified O&M Plan was completed in April 2017 and October 2017. The results from these sampling events are presented herein, along with a description of any maintenance activity conducted in the swale. Also, all analytical results presented in this (PRR) will be uploaded into NYSDEC's EQuIS system in March 2017.

Summary of Activities Performed During the Reporting Period

The following is a summary of activities performed by 3M during the reporting period:

- Groundwater samples for CS₂ analysis were collected from monitoring well MW-4 (primary sample and duplicate sample) and lysimeter LY-02 on April 18, 2017, in accordance with the O&M Plan modifications approved by NYSDEC. Laboratory analytical results from the April 2017 sampling event are provided in this report. Photographs of the site groundwater monitoring well and lysimeter taken on November 16, 2017 are provided in Attachment A.
- Groundwater samples for CS₂ analysis were collected from monitoring well MW-4 (primary sample and duplicate sample) on October 23, 2017 pursuant to the O&M Plan modifications. The sampling results from the October 2017 event are provided in this report.
- No maintenance activity was conducted in the subject drainage swale during the reporting period. Vegetation and grading in this swale are in good condition. Photographs showing the condition of the drainage swale, catch basin and fencing at the time of the site inspection in November 2017 are provided in Attachment A.
- The annual compliance inspection/evaluation was completed on November 16, 2017. No deficiencies were noted during the inspection.

Groundwater Monitoring Results

Summary of Carbon Disulfide Water Analytical Results

Sampling Date	Sample ID and Result		
	MW-4 (µg/L)	MW-4 Duplicate (µg/L)	LY-02 (mg/L)
4/18/2017	0.34 J	0.24 J	260
10/23/2017	0.24 J	0.24 J	NS

Notes:

- NS: Not sampled per approved plan.
- J: Result is less than the reporting limit of 5 µg/L but greater than or equal to the method detection limit of 0.19 µg/L and the concentration is an approximate value.

As noted above, CS₂ was not detected above the reporting limit in the groundwater samples collected from monitoring well MW-4 in April 2017 and October 2017. CS₂ was detected at a concentration of 260 mg/L in the pore water sample collected from lysimeter LY-02. This finding is consistent with previous sample results. A copy of the completed well purging/sampling forms and the laboratory data packages for the April 2017 and October 2017 sampling events is provided in Attachment B.

ATTACHMENT A
SITE PHOTOGRAPHS – NOVEMBER 16, 2017

Groundwater Monitoring Well MW-4



Catch Basin, Swale and Fencing



Lysimeter LY-2



Drainage Collection





**ATTACHMENT B
WELL PURGING/SAMPLING FORMS
AND LABORATORY ANALYTICAL PACKAGES
APRIL 2017 AND OCTOBER 2017 SAMPLING EVENTS**

WELL PURGING/SAMPLING FORMS



Well Evacuation/Sampling Form

SITE INFORMATION <u>Tonawanda</u>		4/18/17							
Well No.: <u>MW-Ø4</u>	Weather: <u>Sunny</u> Cloudy Rain	Temp: <u>58°</u>							
Sampling Team: <u>Gra Flosinski</u>	Sampler's Signature: <u>[Signature]</u>								
WELL INFORMATION									
Protective Casing: <u>Intact</u> / Damaged	Concrete Base: <u>Intact</u> / Damaged								
Locked: <u>YES</u> NO	Well Diameter: <u>2-INCH</u> 4-INCH 6-INCH								
WELL EVACUATION INFORMATION									
A. Total Depth (Top of Casing = TOC):	<u>72.90</u>	Well Evacuation Method <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> 2-Inch Grundfos <input type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Other (Specify) _____							
B. Depth to Water (DTW) (TOC):	<u>-31.64</u>								
C. Column of Standing Water (C=A-B):	<u>41.26</u>								
D. Purge Factor	<u>x 0.16</u>								
E. One Well Volume:	<u>6.6</u>								
F. Three Well Volumes (gallons):	<u>19.8</u>	TOTAL VOLUME PURGED: <u>19.8</u>							
INDICATOR PARAMETERS									
	Time	<u>1351</u>	<u>1405</u>	<u>1415</u>	<u>1425</u>				
Purge Rate (gal. per minute)									
Total Gallons Purged									
Temperature (°C):	<u>14.9</u>	<u>13.9</u>	<u>13.2</u>	<u>13.0</u>					
Specific Conductivity (s):	<u>437.7</u>	<u>276.4</u>	<u>349.0</u>	<u>352.9</u>					
pH:	<u>8.89</u>	<u>11.88</u>	<u>11.31</u>	<u>9.21</u>					
SECONDARY PARAMETERS									
<u>DDJ</u>	<u>81.64</u>	<u>82.01</u>	<u>82.11</u>	<u>82.10</u>					
ORP (mV):	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>					
Dissolved Oxygen (mg/L):	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>					
Turbidity:	<u>51.3</u>	<u>83.7</u>	<u>57.6</u>	<u>66.7</u>					
NAPL Observed: YES / <u>(NO)</u>	Well Pumped Dry: YES / <u>(NO)</u>								
ODOR: YES / <u>(NO)</u>	Other:								
Odor Type: () Solvent () Septic () Other									
SAMPLE COLLECTION INFORMATION				SAMPLE DATE: <u>4/18/17</u>					
Sample No.	Time	Sample No.	Time						
Media Sample ID: <u>MW-Ø4</u>	<u>1430</u>	Rinsate Blank: <u>(YES/NO)</u>	<u>FR-MW-Ø4</u>	<u>1345</u>					
Duplicate: <u>(YES/NO)</u> <u>MW-Ø4 Dup</u>	<u>1430</u>	Field Blank: YES/NO							
Parameters: <input checked="" type="checkbox"/> TOC <u>CS₂</u> () Fluorides () Chlorides () TDS <u>ONLY</u> () Metals (Total RCRA) Non-filtered () Metals (Total RCRA) Filtered	<u>MW-Ø1 30.73</u> <u>MW-Ø2 32.00</u> <u>MW-Ø3 33.69</u>			* WATER LEVELS *					
COMMENTS									
<u>CS₂ (5ppb)</u>				Well Pumped Dry: YES / <u>(NO)</u>					
				Volume Purged: <u>20</u>					
				Well Requires Maintenance? YES / <u>(NO)</u>					
				Access Requires Maintenance? YES / <u>(NO)</u>					

Purge Factors: 1" (0.04); 2" (0.16); 3" (0.37); 4" (0.65); 6" (1.47); 8" (2.61); 10" (4.08)

Well Evacuation/Sampling Form

SITE INFORMATION <u>TONAWANDA</u>		<u>10/23/17</u>							
Well No.: <u>MW-04</u>	Weather: <u>Sunny/Cloudy</u> Rain	Temp: <u>40°</u>							
Sampling Team: <u>Greg Flasiński</u>	Sampler's Signature: <u>[Signature]</u>								
WELL INFORMATION									
Protective Casing: <input checked="" type="radio"/> Intact / <input type="radio"/> Damaged	Concrete Base: <input checked="" type="radio"/> Intact / <input type="radio"/> Damaged								
Locked: <input checked="" type="radio"/> YES / <input type="radio"/> NO	Well Diameter: <input checked="" type="radio"/> 2-INCH / <input type="radio"/> 4-INCH / <input type="radio"/> 6-INCH								
WELL EVACUATION INFORMATION									
A. Total Depth (Top of Casing = TOC):	<u>72.90</u>	Well Evacuation Method <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> 2-Inch Grundfos <input type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Other (Specify) _____							
B. Depth to Water (DTW) (TOC):	<u>-31.47</u>								
C. Column of Standing Water (C=A-B):	<u>41.43</u>								
D. Purge Factor	<u>x 0.16</u>								
E. One Well Volume:	<u>6.6</u>								
F. Three Well Volumes (gallons):	<u>19.8</u>	TOTAL VOLUME PURGED: <u>19.8</u>							
INDICATOR PARAMETERS									
	Time	<u>1325</u>	<u>1340</u>	<u>1350</u>	<u>1405</u>				
Purge Rate (gal. per minute)									
Total Gallons Purged									
Temperature (°C):	<u>14.6</u>	<u>13.6</u>	<u>13.4</u>	<u>13.4</u>					
Specific Conductivity (s):	<u>512</u>	<u>3562</u>	<u>2721</u>	<u>2891</u>					
pH:	<u>9.61</u>	<u>12.70</u>	<u>10.26</u>	<u>8.44</u>					
SECONDARY PARAMETERS	<u>31.47</u>	<u>31.52</u>	<u>31.54</u>	<u>31.50</u>					
ORP (mV):									
Dissolved Oxygen (mg/L):									
Turbidity:	<u>95.0</u>	<u>85.0</u>	<u>76.1</u>	<u>64.3</u>					
NAPL Observed: YES / NO	Well Pumped Dry: YES / NO								
ODOR: YES / NO	Other:								
Odor Type: () Solvent () Septic () Other									
SAMPLE COLLECTION INFORMATION					SAMPLE DATE: <u>10/23/17</u>				
Sample No.	Time	Sample No.	Time						
Media Sample ID: <u>MW-4</u>	<u>1405</u>	Rinsate Blank: YES/NO							
Duplicate: <input checked="" type="radio"/> YES / <input type="radio"/> NO <u>MW-4 Dup</u>		Field Blank: <input checked="" type="radio"/> YES / <input type="radio"/> NO <u>FB-MW-04</u>	<u>1320</u>						
Parameters: () 8260 VOC () Chlorides () TDS () Metals (Total RCRA) Non-filtered () Metals (Total RCRA) Filtered <u>5 ppb detection</u>	<u>Fluorides CS2 ONLY</u>								
COMMENTS									
					Well Pumped Dry: YES / <input checked="" type="radio"/> NO				
					Volume Purged:				
					Well Requires Maintenance? YES / <input checked="" type="radio"/> NO				
					Access Requires Maintenance? YES / <input checked="" type="radio"/> NO				

Purge Factors: 1" (0.04); 2" (0.16); 3" (0.37); 4" (0.65); 6" (1.47); 8" (2.61); 10" (4.08)

LABORATORY ANALYTICAL PACKAGES

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-116462-1

Client Project/Site: 3M Tonawanda

Sampling Event: 3M Tonawanda, NY - Semi-Annual Monit.

For:

Weston Solutions, Inc.

1400 Weston Way

PO BOX 2653

West Chester, Pennsylvania 19380

Attn: Mr. Tom Drew



Authorized for release by:

5/1/2017 9:39:46 AM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-116462-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-116462-1

Job ID: 480-116462-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-116462-1

Receipt

The samples were received on 4/18/2017 3:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

Method(s) 8260C: Surrogate recovery for the following sample was outside the upper control limit: Trip Blank (480-116462-1) and MW-04 (480-116462-3). The samples did not contain any target analytes above the reporting limit (RL); therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: The surrogate recovery for the blank associated with analytical batch 480-354700 was outside the upper control limits. The following sample was impacted: Trip Blank (480-116462-1) and MW-04 (480-116462-3).

Method(s) 8260C: Surrogate recovery for the following samples was outside the upper control limit: LY-02 (480-116462-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: LY-02 (480-116462-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The surrogate recovery for the blank associated with analytical batch 480-354813 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-116462-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-116462-1

No Detections.

Client Sample ID: FB-MW-04

Lab Sample ID: 480-116462-2

No Detections.

Client Sample ID: MW-04

Lab Sample ID: 480-116462-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.34	J	5.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: MW-04 DUP

Lab Sample ID: 480-116462-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.24	J	5.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: LY-02

Lab Sample ID: 480-116462-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	260000		40000	1500	ug/L	8000		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-116462-1

Client Sample ID: Trip Blank

Date Collected: 04/18/17 13:00
Date Received: 04/18/17 15:35

Lab Sample ID: 480-116462-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			04/29/17 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124	X	77 - 120					04/29/17 01:22	1
Toluene-d8 (Surr)	98		80 - 120					04/29/17 01:22	1
4-Bromofluorobenzene (Surr)	113		73 - 120					04/29/17 01:22	1

Client Sample ID: FB-MW-04

Date Collected: 04/18/17 13:45
Date Received: 04/18/17 15:35

Lab Sample ID: 480-116462-2

Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			04/29/17 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		77 - 120					04/29/17 01:49	1
Toluene-d8 (Surr)	97		80 - 120					04/29/17 01:49	1
4-Bromofluorobenzene (Surr)	114		73 - 120					04/29/17 01:49	1

Client Sample ID: MW-04

Date Collected: 04/18/17 14:30
Date Received: 04/18/17 15:35

Lab Sample ID: 480-116462-3

Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.34	J	5.0	0.19	ug/L			04/29/17 02:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	126	X	77 - 120					04/29/17 02:16	1
Toluene-d8 (Surr)	96		80 - 120					04/29/17 02:16	1
4-Bromofluorobenzene (Surr)	109		73 - 120					04/29/17 02:16	1

Client Sample ID: MW-04 DUP

Date Collected: 04/18/17 14:30
Date Received: 04/18/17 15:35

Lab Sample ID: 480-116462-4

Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.24	J	5.0	0.19	ug/L			04/29/17 02:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		77 - 120					04/29/17 02:43	1
Toluene-d8 (Surr)	96		80 - 120					04/29/17 02:43	1
4-Bromofluorobenzene (Surr)	108		73 - 120					04/29/17 02:43	1

TestAmerica Buffalo

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-116462-1

Client Sample ID: LY-02

Lab Sample ID: 480-116462-5

Date Collected: 04/18/17 15:10

Matrix: Monitor Well

Date Received: 04/18/17 15:35

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	260000		40000	1500	ug/L			04/30/17 00:48	8000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	129	X	77 - 120		04/30/17 00:48	8000
Toluene-d8 (Surr)	99		80 - 120		04/30/17 00:48	8000
4-Bromofluorobenzene (Surr)	113		73 - 120		04/30/17 00:48	8000



Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-116462-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Monitor Well

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (77-120)	TOL (80-120)	BFB (73-120)
480-116462-2	FB-MW-04	118	97	114
480-116462-3	MW-04	126 X	96	109
480-116462-4	MW-04 DUP	119	96	108
480-116462-5	LY-02	129 X	99	113

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (77-120)	TOL (80-120)	BFB (73-120)
480-116462-1	Trip Blank	124 X	98	113
LCS 480-354700/4	Lab Control Sample	113	100	115
LCS 480-354813/4	Lab Control Sample	117	97	118
MB 480-354700/6	Method Blank	115	98	112
MB 480-354813/6	Method Blank	132 X	100	110

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-116462-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-354700/6

Matrix: Water

Analysis Batch: 354700

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			04/28/17 23:26	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120					04/28/17 23:26	1
Toluene-d8 (Surr)	98		80 - 120					04/28/17 23:26	1
4-Bromofluorobenzene (Surr)	112		73 - 120					04/28/17 23:26	1

Lab Sample ID: LCS 480-354700/4

Matrix: Water

Analysis Batch: 354700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	25.0	23.7		ug/L		95	59 - 134
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	113		77 - 120				
Toluene-d8 (Surr)	100		80 - 120				
4-Bromofluorobenzene (Surr)	115		73 - 120				

Lab Sample ID: MB 480-354813/6

Matrix: Water

Analysis Batch: 354813

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			04/30/17 00:20	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	132	X	77 - 120					04/30/17 00:20	1
Toluene-d8 (Surr)	100		80 - 120					04/30/17 00:20	1
4-Bromofluorobenzene (Surr)	110		73 - 120					04/30/17 00:20	1

Lab Sample ID: LCS 480-354813/4

Matrix: Water

Analysis Batch: 354813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	25.0	24.5		ug/L		98	59 - 134
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	117		77 - 120				
Toluene-d8 (Surr)	97		80 - 120				
4-Bromofluorobenzene (Surr)	118		73 - 120				

TestAmerica Buffalo

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-116462-1

GC/MS VOA

Analysis Batch: 354700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116462-1	Trip Blank	Total/NA	Water	8260C	
480-116462-2	FB-MW-04	Total/NA	Monitor Well	8260C	
480-116462-3	MW-04	Total/NA	Monitor Well	8260C	
480-116462-4	MW-04 DUP	Total/NA	Monitor Well	8260C	
MB 480-354700/6	Method Blank	Total/NA	Water	8260C	
LCS 480-354700/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 354813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116462-5	LY-02	Total/NA	Monitor Well	8260C	
MB 480-354813/6	Method Blank	Total/NA	Water	8260C	
LCS 480-354813/4	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-116462-1

Client Sample ID: Trip Blank

Date Collected: 04/18/17 13:00

Date Received: 04/18/17 15:35

Lab Sample ID: 480-116462-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	354700	04/29/17 01:22	ARS	TAL BUF

Client Sample ID: FB-MW-04

Date Collected: 04/18/17 13:45

Date Received: 04/18/17 15:35

Lab Sample ID: 480-116462-2

Matrix: Monitor Well

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	354700	04/29/17 01:49	ARS	TAL BUF

Client Sample ID: MW-04

Date Collected: 04/18/17 14:30

Date Received: 04/18/17 15:35

Lab Sample ID: 480-116462-3

Matrix: Monitor Well

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	354700	04/29/17 02:16	ARS	TAL BUF

Client Sample ID: MW-04 DUP

Date Collected: 04/18/17 14:30

Date Received: 04/18/17 15:35

Lab Sample ID: 480-116462-4

Matrix: Monitor Well

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	354700	04/29/17 02:43	ARS	TAL BUF

Client Sample ID: LY-02

Date Collected: 04/18/17 15:10

Date Received: 04/18/17 15:35

Lab Sample ID: 480-116462-5

Matrix: Monitor Well

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8000	354813	04/30/17 00:48	NEA	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-116462-1

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

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Method Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-116462-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-116462-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-116462-1	Trip Blank	Water	04/18/17 13:00	04/18/17 15:35
480-116462-2	FB-MW-04	Monitor Well	04/18/17 13:45	04/18/17 15:35
480-116462-3	MW-04	Monitor Well	04/18/17 14:30	04/18/17 15:35
480-116462-4	MW-04 DUP	Monitor Well	04/18/17 14:30	04/18/17 15:35
480-116462-5	LY-02	Monitor Well	04/18/17 15:10	04/18/17 15:35

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Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 480-116462-1

Login Number: 116462

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	WESTON
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-126378-1

Client Project/Site: 3M Tonawanda

For:

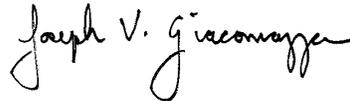
Weston Solutions, Inc.

1400 Weston Way

PO BOX 2653

West Chester, Pennsylvania 19380

Attn: Mr. Tom Drew



Authorized for release by:

11/6/2017 1:24:59 PM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-126378-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-126378-1

Job ID: 480-126378-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-126378-1

Receipt

The samples were received on 10/23/2017 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-126378-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-126378-1

No Detections.

Client Sample ID: FB-MW-04

Lab Sample ID: 480-126378-2

No Detections.

Client Sample ID: MW-04

Lab Sample ID: 480-126378-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.24	J	5.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: MW-04 DUP

Lab Sample ID: 480-126378-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.24	J	5.0	0.19	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-126378-1

Client Sample ID: Trip Blank

Date Collected: 10/23/17 13:00
Date Received: 10/23/17 15:15

Lab Sample ID: 480-126378-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			11/02/17 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120					11/02/17 18:19	1
Toluene-d8 (Surr)	97		80 - 120					11/02/17 18:19	1
4-Bromofluorobenzene (Surr)	99		73 - 120					11/02/17 18:19	1

Client Sample ID: FB-MW-04

Date Collected: 10/23/17 13:20
Date Received: 10/23/17 15:15

Lab Sample ID: 480-126378-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			11/02/17 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		77 - 120					11/02/17 18:44	1
Toluene-d8 (Surr)	96		80 - 120					11/02/17 18:44	1
4-Bromofluorobenzene (Surr)	99		73 - 120					11/02/17 18:44	1

Client Sample ID: MW-04

Date Collected: 10/23/17 14:25
Date Received: 10/23/17 15:15

Lab Sample ID: 480-126378-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.24	J	5.0	0.19	ug/L			11/02/17 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120					11/02/17 19:09	1
Toluene-d8 (Surr)	96		80 - 120					11/02/17 19:09	1
4-Bromofluorobenzene (Surr)	98		73 - 120					11/02/17 19:09	1

Client Sample ID: MW-04 DUP

Date Collected: 10/23/17 14:35
Date Received: 10/23/17 15:15

Lab Sample ID: 480-126378-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.24	J	5.0	0.19	ug/L			11/03/17 04:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120					11/03/17 04:12	1
Toluene-d8 (Surr)	97		80 - 120					11/03/17 04:12	1
4-Bromofluorobenzene (Surr)	94		73 - 120					11/03/17 04:12	1

TestAmerica Buffalo

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-126378-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (77-120)	TOL (80-120)	BFB (73-120)
480-126378-1	Trip Blank	94	97	99
480-126378-2	FB-MW-04	91	96	99
480-126378-3	MW-04	93	96	98
480-126378-4	MW-04 DUP	96	97	94
LCS 480-385183/4	Lab Control Sample	91	96	97
LCS 480-385374/4	Lab Control Sample	95	99	94
MB 480-385183/7	Method Blank	93	97	96
MB 480-385374/6	Method Blank	100	98	93

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-126378-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-385183/7

Matrix: Water

Analysis Batch: 385183

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			11/02/17 11:44	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120					11/02/17 11:44	1
Toluene-d8 (Surr)	97		80 - 120					11/02/17 11:44	1
4-Bromofluorobenzene (Surr)	96		73 - 120					11/02/17 11:44	1

Lab Sample ID: LCS 480-385183/4

Matrix: Water

Analysis Batch: 385183

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	25.0	24.8		ug/L		99	59 - 134
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	91		77 - 120				
Toluene-d8 (Surr)	96		80 - 120				
4-Bromofluorobenzene (Surr)	97		73 - 120				

Lab Sample ID: MB 480-385374/6

Matrix: Water

Analysis Batch: 385374

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			11/02/17 22:57	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					11/02/17 22:57	1
Toluene-d8 (Surr)	98		80 - 120					11/02/17 22:57	1
4-Bromofluorobenzene (Surr)	93		73 - 120					11/02/17 22:57	1

Lab Sample ID: LCS 480-385374/4

Matrix: Water

Analysis Batch: 385374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	25.0	26.1		ug/L		104	59 - 134
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	95		77 - 120				
Toluene-d8 (Surr)	99		80 - 120				
4-Bromofluorobenzene (Surr)	94		73 - 120				

TestAmerica Buffalo

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-126378-1

GC/MS VOA

Analysis Batch: 385183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126378-1	Trip Blank	Total/NA	Water	8260C	
480-126378-2	FB-MW-04	Total/NA	Water	8260C	
480-126378-3	MW-04	Total/NA	Water	8260C	
MB 480-385183/7	Method Blank	Total/NA	Water	8260C	
LCS 480-385183/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 385374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126378-4	MW-04 DUP	Total/NA	Water	8260C	
MB 480-385374/6	Method Blank	Total/NA	Water	8260C	
LCS 480-385374/4	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-126378-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-126378-1

Date Collected: 10/23/17 13:00

Matrix: Water

Date Received: 10/23/17 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	385183	11/02/17 18:19	KMN	TAL BUF

Client Sample ID: FB-MW-04

Lab Sample ID: 480-126378-2

Date Collected: 10/23/17 13:20

Matrix: Water

Date Received: 10/23/17 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	385183	11/02/17 18:44	KMN	TAL BUF

Client Sample ID: MW-04

Lab Sample ID: 480-126378-3

Date Collected: 10/23/17 14:25

Matrix: Water

Date Received: 10/23/17 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	385183	11/02/17 19:09	KMN	TAL BUF

Client Sample ID: MW-04 DUP

Lab Sample ID: 480-126378-4

Date Collected: 10/23/17 14:35

Matrix: Water

Date Received: 10/23/17 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	385374	11/03/17 04:12	RRS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-126378-1

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

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Method Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-126378-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-126378-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-126378-1	Trip Blank	Water	10/23/17 13:00	10/23/17 15:15
480-126378-2	FB-MW-04	Water	10/23/17 13:20	10/23/17 15:15
480-126378-3	MW-04	Water	10/23/17 14:25	10/23/17 15:15
480-126378-4	MW-04 DUP	Water	10/23/17 14:35	10/23/17 15:15

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15

Regulatory Program: DW NPDES RCRA Other:

Client Contact Company Name: <u>Western Solutions</u> Address: <u>1410 Western Way</u> City/State/Zip: <u>W Chester, PA 19380</u> Phone: <u>610.701.0583</u> Fax: _____ Project Name: <u>3M Tonawanda</u> Site: <u>Tonawanda NY</u> P O #: _____		Project Manager: <u>Tom Drew</u> Tel/Fax: <u>610.701.3622</u> Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Lab Contact: <u>Jody Skub</u> Perform MS / MSD (Y / N) _____ Filtered Sample (Y / N) _____		Date: _____ Carrier: <u>HAND DELIVERED</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____		COC No.: _____ of _____ COCs Sampler: _____	
Sample Identification <u>Trip Blank</u> <u>FB-Mw-04</u> <u>Mw-04</u> <u>Mw-04 Dup</u>		Sample Date <u>10/23/17</u> <u>1300</u> <u>1320</u> <u>1425</u> <u>1435</u>		Sample Type (C-Comp, G-Grab) <u>G</u> <u>I</u> <u>I</u> <u>I</u>		Matrix <u>W</u> <u>I</u> <u>I</u> <u>I</u>		# of Cont. <u>1</u> <u>3</u> <u>3</u> <u>3</u>	
Sample Specific Notes: <u>CS₂ ONLY</u> <u>5PPb</u> <u>Detecting</u> <u>Limit</u>		480-126378 COC 		Date: <u>10/23/17</u> Time: <u>1515</u>		Date: _____ Time: _____		Date: _____ Time: _____	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:

Custody Seal Intact: Yes No
 Relinquished by: [Signature]
 Relinquished by: _____
 Relinquished by: _____

Received by: [Signature]
 Date/Time: 10/23/17 1515
 Company: TABuf.
 Received by: _____
 Date/Time: _____
 Company: _____
 Received in Laboratory by: _____
 Date/Time: _____
 Company: _____

Cooler Temp. (°C): Obs'd: _____
 Corr'd: _____
 Therm ID No.: _____

Return to Client Disposal by Lab Archive for _____ Months

3rd



Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 480-126378-1

Login Number: 126378

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	WESTON
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

SITE NO. 915148

Box 3

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
65.09-6-5	Minnesota Mining & Manufacturing Company	Landuse Restriction Monitoring Plan

A No Further Action Record of Decision (ROD) was issued for this site in March 1999. A Declaration of Covenants and Restrictions was placed on the property on March 21, 2001 prohibiting the residential use of the site. The graded area surrounding the catch basins are maintained and inspected annually. Groundwater monitoring is also conducted to confirm that site conditions remain unchanged and to detect any future migration of CS2, should it occur. The site is fenced.

Box 4

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
65.09-6-5	Fencing/Access Control

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

X

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

X

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 915148

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I JOHN C. AIKEY at 305 SAWYER AVE, TONAWANDA, NY, 14150
print name print business address

am certifying as OWNER (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

John C. Aikey
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

2/22/18
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I THOMAS A. DREW at WESTON SOLUTIONS, INC.
1400 WESTON WAY, WEST CHESTER, PA.
19380
print name print business address

am certifying as a Qualified Environmental Professional for the OWNER
(Owner or Remedial Party)

Thomas A. Drew

2/26/2018

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

Date